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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-09-07-24 **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01
Agency	:	Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-09-07-24 **Date: 19-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.
Agency	:	Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-07-24** **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.
Agency	:	Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-06-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-07-24** **Date: 22-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.
Agency	:	Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-09-07-24** **Date: 22-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.
Agency	:	Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-06-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	54	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	231	313	31.3	68.7	30-70	55-90	75-100	90-100
5	600 micron	200	513	51.3	48.7	15-34	35-59	60-79	80-100
6	300 micron	201	714	71.4	28.6	5-20	8-30	12-40	15-50
7	150 micron	192	906	90.6	9.4	0-10	0-10	0-10	0-15
8	Pan	94	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-09-07-24** **Date: 26-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.
Agency	:	Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	25-06-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-07-24** **Date: 04/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.
Agency	:	Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-06-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/06/2019	04/07/2019	150.63 X 151.59 X 151.87	22834	8.348	415.1	18.2	18.5
2	Drain Bottom Slab Concrete	M20	27/06/2019	04/07/2019	149.65 X 150.84 X 151.77	22574	8.313	424.7	18.8	
3	Drain Bottom Slab Concrete	M20	27/06/2019	04/07/2019	149.66 X 150.76 X 149.58	22563	8.649	415.0	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-07-24 **Date: 09/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.

Agency : Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/09/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	02/07/2019	09/07/2019	150.21 X 149.10 X 149.24	22396	8.348	424.4	18.9	18.6
2	Drain Side Wall Concrete	M20	02/07/2019	09/07/2019	150.68 X 149.21 X 150.22	22483	8.313	410.6	18.3	
3	Drain Side Wall Concrete	M20	02/07/2019	09/07/2019	150.52 X 151.23 X 150.64	22763	8.649	421.6	18.5	

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-09-07-24** **Date: 06-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.
Agency	:	Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-07-19
Sample Type /Size	:	Precast Cover Slab(100 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-07-24 **Date: 10/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.

Agency : Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/09/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	151.31 X 151.22 X 150.30	22881	8.265	583.6	25.5	25.6
2	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	149.60 X 151.45 X 150.03	22658	8.270	608.2	26.8	
3	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	149.05 X 149.27 X 149.39	22249	8.207	545.9	24.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-07-24 **Date: 10/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.

Agency : Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/09/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/07/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	151.26 X 149.92 X 150.60	22678	8.265	586.0	25.8	25.4
2	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	151.54 X 149.80 X 150.55	22700	8.270	594.1	26.2	
3	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	150.99 X 150.50 X 150.88	22725	8.207	549.0	24.2	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date BANGALORE

A.E.E

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-07-24 **Date: 10/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.

Agency : Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/09/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1 5

Date of test : 10/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	150.64 X 149.11 X 151.06	22462	8.265	565.8	25.2	25.3
2	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	149.10 X 151.70 X 149.69	22618	8.270	599.9	26.5	
3	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	150.24 X 150.00 X 150.73	22536	8.207	547.7	24.3	

Note:
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CIVIL Pro Sig Date BANGALORE

R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-07-24 **Date: 10/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.

Agency : Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/09/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	150.17 X 149.96 X 151.83	22518	8.265	567.6	25.2	25.4
2	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	151.72 X 150.09 X 151.19	22771	8.270	609.6	26.8	
3	Cement Concrete Pavement	M30	03/07/2019	10/07/2019	150.24 X 149.89 X 151.68	22519	8.207	546.9	24.3	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-09-07-24
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Maruthinagara Layout Main Road and Cross Roads in Kempegowda Ward No-01.
Agency	:	Sri.Krishna S, No:35 KHB Main Road, A Block, Kaverinagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 31/07/2019

Date of test : 31/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/07/2019	31/07/2019	149.22 X 149.61 X 149.42	22326	8.347	758.8	34.0	33.4
2	Cement Concrete Pavement	M30	03/07/2019	31/07/2019	151.52 X 151.54 X 150.92	22962	8.800	754.5	32.9	
3	Cement Concrete Pavement	M30	03/07/2019	31/07/2019	150.76 X 151.02 X 151.43	22769	8.061	761.4	33.4	

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R KARTHIK RECHAN
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Quality Manager

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